EQ/008339 PTO 12/13/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Herron et al.

Serial No.: Not yet assigned

Filed: November 13, 2001

For: APPARATUS AND METHODS FOR MULTI-ANALYTE HOMOGENEOUS

FLUORO-IMMUNOASSAYS

Examiner: Unknown

Group Art Unit: Unknown

Attorney Docket No.: 2424.4US

NOTICE OF EXPRESS MAILING

Express Mail Mailing Label Number: EL740546853US

Date of Deposit with USPS: November 13, 2001

Person making Deposit: Orlena Howell

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents are enclosed pursuant to 37 C.F.R. § 1.98(a).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in

37 C.F.R. § 1.56(b). Further, no representation is made by Applicants herein that no other possible material information as defined in 37 C.F.R. § 1.56(b) exists.

DOCUMENTS

U.S. Patent Documents				
U.S. Patent No.	<u>Inventor</u>	Issue Date		
#3,939,350	Kronick et al.	02/17/76		
#3,959,078	Guire	05/25/76		
#4,050,895	Hardy et al.	09/27/77		
#4,166,105	Hirshfeld	08/28/79		
#4,235,869	Schwarzberg	11/25/80		
#4,264,766	Fischer	04/28/81		
#4,298,685	Parikh et al.	11/03/81		
#4,429,008	Martin et al.	01/31/84		
#4,447,546	Hirschfeld	05/08/84		
#4,450,231	Ozkan	05/22/84		
#4,558,014	Hirschfeld et al.	12/10/85		
#4,562,157	Lowe et al.	12/31/85		
#4,596,723	Kaufman et al.	06/24/86		
#4,627,445	Garcia et al.	12/09/86		
#4,708,871	Geysen	11/24/87		
#4,722,906	Guire	02/02/88		
#4,775,637	Sutherland et al.	10/04/88		
#4,806,312 _.	Greenquist	02/21/89		
#4,810,658	Shanks et al.	03/07/89		
#4,820,649	Kawaguchi et al.	04/11/89		
#4,826,759	Guire et al.	05/02/89		
#4,852,967	Cook et al.	08/01/89		
#4,852,967	Cook et al.	08/01/89		
#RE 33,064	Carter et al.	09/19/89		
#4,880,752	Keck et al.	11/14/89		
#4,909,990	Block et al.	03/20/90		
#4,973,493	Guire	11/27/90		
#4,978,503	Shanks et al.	12/18/90		
#4,979,959	Guire	12/25/90		
#4,997,278	Finlan et al.	03/05/91		
#5,002,582	Guire et al.	03/26/91		
#5,006,333	Seifer et al.	04/09/91		
#5,006,716	Hall	04/09/91		

#5,043,278	Nagaoka et al.	08/27/91
#5,061,857	Thompson et al.	10/29/91
#5,071,216	Sullivan	12/10/91
#5,071,217	Birch	12/10/91
#5,073,484	Swanson et al.	12/17/91
#5,081,012	Flanagan et al.	01/14/92
#5,096,807	Leaback	03/17/92
#5,135,876	Andrade et al.	08/04/92
#5,156,976	Slovacek et al.	10/20/92
#5,166,515	Attridge	11/24/92
#5,168,537	Rajasekharan et al.	12/01/92
#5,182,216	Clayton et al.	01/26/93
#5,186,897	Eason et al.	02/16/93
#5,192,502	Attridge et al.	03/09/93
#5,217,492	Guire et al.	06/08/93
#5,242,838	Bergstrom et al.	09/07/93
#5,248,620	Sluka et al.	09/28/93
#5,258,041	Guire et al.	11/02/93
#5,263,992	Guire	11/23/93
#5,344,784	Attridge	09/06/94
#5,380,668	Herron et al.	01/10/95
#RE 34,394	Bunting	09/28/93
#5,436,161	Bergstrom et al.	07/25/95
#5,512,492	Herron et al.	04/30/96
#5,552,272	Bogart	09/03/96
#5,580,794	Allen	12/03/96
#5,677,196	Herron et al.	10/14/97
#5,814,565	Reichert et al.	09/29/98
#5,832,165	Reichert et al.	11/03/98
#5,846,842	Herron et al.	12/08/98
#5,919,712	Herron et al.	07/06/99
# 5,961,924	Reichert et al.	10/05/99
Des. 426,783	Christensen et al.	06/20/00
# 6,108,463	Herron et al.	08/22/00

Foreign Patent Documents

<u>Document Number</u>	<u>Date</u>	Country
#WO 81/00912	04/02/81	PCT
#WO 89/09408	10/05/89	PCT
#2,220,083	12/28/89	GB
#9,001,166	02/08/90	PCT
#9,006,503	06/14/90	PCT
#9 113 339	09/05/91	PCT
#9,115,751	10/17/91	PCT
#0 478 137	01/04/92	EP
#9,209,892	06/11/92	PCT
#9 216 838	10/01/92	PCT
#WO 92/16838	10/01/92	PCT
#0 517 516 A1	12/09/92	EP
#0 519 623 A2	12/23/92	EP
#943673	10/10/95	MX

Other Documents

#Carlsson, "Protein Thiolation and Reversible Protein-Protein Conjugation", <u>Biochem J.</u>, 173, pp. 723-737, 1978.

#Ciana, Leopoldo Della, "Electrochemiluminescence Immunosensors And DNA Probes For Clinical Diagnostics", Abstract, p. 19.

#Fitch, R., "Polymer Colloids: A Comprehensive Introduction", <u>Academic Press, Inc.</u>, 10 pages, 1997.

#Harmer, "Guided-Wave Chemical Sensors", <u>Electrochem. Soc.</u> 87-9 (Proc. Synp. Chem. Sens.), pp. 409-427, 1987.

#Harrick et al., "Multiple Internal Reflection Fluorescence Spectrometry", <u>Analytical Chemistry</u>, Vol. 45, No. 4, pp. 687-691, April 1973.

#Herron, "Fluorescent immunosensors using planar waveguides", <u>SPIE</u>, Vol. 1885, Proceedings of Advances in Fluorescence Sensing Technology, pp. 28-39, 1993.

#Huang, Shao-Chie, "PEG derivatives as tethers for site-directed immobilization of oxidized antibody", title page, abstract (pages iv-v), and pp. 35-39.

#Huang, Shao-Chie, "PEG Derivatives As Tethers For Site-Directed Immobilization Of Oxidized Antibody", Master's Thesis, November 1991.

#Ives, Jeffrey T., "Optical waveguide sensors: characterization of evanescent and scatter excitation," Ph.D. dissertation submitted to Dept. of Bioengineering, University of Utah, June 1990.

#J. Chromatography 604: 63-71, Caldwell, Li, Li and Dalgleish, "Adsorption behavior of milk proteins of polystrene ltex", Elsevier Science Publishers, 1992.

#Lee, "Protein-resistant surfaces prepared by PEO-containing block copolymer surfactants", <u>Journal of Biomedical Materials Research</u>, pp. 351-368, 1989.

#Lakowicz, Joseph R., "Fluorescence Lifetime-Based Sensing And Imaging", Abstract, p. 5.

#Leiner, M.J.P., "Optical Sensors For In Vitro Blood Gas Analysis", Abstract.

#Particle Size Distribution II, Li, J., Caldwell, K.D., and Tan, J.S., "Size analysis of a block copolymercoated polystyrene latex", Chapter 16, pub. American Chemical Society 1991.

#Ligler et al., "Evanescent Wave Optical Fibre Sensors", Abstract, p. 75.

#Liu, Benjamin L., "Clinical Requirements For Optical Immunosensors", Abstract, p. 13.

#Masuda, Kenji, "Study Of The Sensitivity Of Evanescent Wave Immunoassay", Abstract, p. 11.

#Multiple Internal Reflection Fluorscence Spectrometry, Harrick, N.J., and Loeb, George I., Analytical Chemistry, Vol. 45, No. 4, April 1973, pp. 687-691.

#O'Keeffe et al., "Development Of A LED Based Phase Fluorimetric Oxygen Sensor Using Evanescent Wave Excitation Of A Sol-Gel Immobilized Dye", Abstract, p. 149.

#O'Neill et al., "Use Of An Optical Biosensor To Measure Prostate Specific Antigen In Whole Blood", Abstract, p. 20.

#Particle Size Distribution II, Li, J., Caldwell, K.D., and Tan, J.S., Chapter 16, "Size analysis of a block copolymercoated polystyrene latex", pub. American Chemical Societym 1991.

#Robinson, Grenville, "The Commercial Development Of Planar Optical Biosensors", Abstract.

#Sacco et al., "Fibre-Fluorescence Immunosensors Based On Evanescent Wave Detection", Abstract, p. 52.

#Slovacek et al., "Application Of A Plastic Evanescent Wave Sensor To Immunological Measurements Of CKMB", Abstract, p. 16.

#van Erp et al., "Affinity of monoclonal antibodies", <u>J. Immunol. Methods</u>, 140:235-241, 1991.

#Pursuant to 37 C.F.R. § 1.98(d), copies of the previously identified patents are <u>not</u> being provided since they were previously cited by or submitted to the Office in the following prior application:

Serial No.: 08/979,582 Filed: November 26, 1997

For: APPARATUS AND METHODS FOR MULTI-ANALYTE HOMOGENEOUS FLUORO-IMMUNOASSAYS

which application is being relied upon for an earlier filing date under 35 U.S.C. § 120.

Applicants offer to supply any explanation or discussion of the documents which the Examiner feels is necessary or desirable and which is requested.

This Information Disclosure Statement is filed within three (3) months of the filing date of the above-identified application, and no certification pursuant to 37 C.F.R. § 1.97(c) or a fee pursuant to 37 C.F.R. 1.17(p) is required.

Respectfully submitted,

Brick G. Power

Registration No. 38,581 Attorney for Applicant

TRASKBRITT P. O. Box 2550

Salt Lake City, Utah 84110-2550

Telephone: (801) 532-1922

Date: November 13, 2001

BGP/dip

Enclosures: Form PTO-1449

Copy of documents cited